REPORTED: February 2, 2018 **PROJECT NO.:** SMSD-17-7261

CLIENT: Santa Monica Malibu Unified School District
Facilities Improvement Projects
2828 4th Street
Santa Monica, California 90405

ATTENTION: Facilities Improvement Projects

REF: Ambient Air Sampling Polychlorinated Biphenyls (PCBs)
Franklin Elementary School- Building F
Classrooms F8, F11, and F14

1 INTRODUCTION

1.1 Background

Alta Environmental (Alta) was retained by Santa Monica Malibu Unified School District (SMMUSD) to conduct ambient air sampling for the presence of polychlorinated biphenyls (PCBs) at Franklin Elementary School located at 2400 Montana Ave in Santa Monica, California (Site). The ambient air sampling was conducted on January 27, 2018 to January 28, 2018 by Fabian Ruvalcaba and Scott Fan, employed by Alta.

1.2 Objectives

The air sampling was conducted to determine, within the analytical limitations, airborne concentrations of PCBs in the subject classrooms.

1.3 Scope of Services

Alta conducted ambient air monitoring at the Site for a 24-hour period to determine airborne concentrations of PCBs in the subject classrooms and compare those findings to the EPA's Exposure Levels for Evaluating PCBs in School Indoor Air (ng/m^3) Age range: 6-<12 yr. (elementary school).

2 ANALYTICAL AND FIELD METHODOLOGIES

2.1 Activities

Alta collected six PCB samples in the following classrooms F8, F11, and F14. All samples were collected near the center of classrooms and in breathing zone height. Sampling was conducted with the lighting locked-on (light on) and the air conditioning locked-off for the duration of the sampling. Lighting was locked-on and the air conditioning was locked-off by District mechanical technicians.

2.2 Analytical Methodology

Air samples were collected without a pre-filter and were analyzed for Aroclors on a polyurethane foam cartridge with a constant flow rate of approximately 5 liters per minute. Air samples were collected in the breathing zone height using a tripod. A quality control field blank accompanied these samples to the laboratory and was analyzed with the exposed samples. Samples were analyzed using EPA Method T0-10A, after extraction compounds are introduced into a gas chromatograph utilizing an Electron Capture Detector (ECD).

Analysis of the samples was conducted at ALS Environmental, Salt Lake City, Utah, an AIHA-LAP and NELAC accredited laboratory.

3 AMBIENT AIR EXPOSURE SAMPLE RESULTS

To calculate the exposure levels for evaluating PCBs in indoor school air, Federal EPA made the following assumptions:

- PCB concentrations in dust and soils in and around schools are the same as in average homes or other buildings without elevated PCBs.
- Adults and children less than three years old are in school for 8 hours per day; all other children are in school for six and a half hours per day
- Adults and children less than three years old are in school 185 days per year. All other children are in school for 180 days.

Results of the samples collected from the Site during our investigation are presented in the table below.

Sample Number/Location	**Analyte Aroclor [(1)]**	**Results: nanograms per cubic meter of air (ng/m^3)**	**Exposure levels for evaluating PCBs (Age: 6-<12 yr) in school indoor air (ng/m^3)**	**Exceeds Exposure Level?**
F01 Classroom F8	Aroclor 1121	<28	300	No
	Aroclor 1232	<14	300	No
	Aroclor 1016	<14	300	No
	Aroclor 1242	<14	300	No
	Aroclor 1248	<14	300	No
	Aroclor 1254	<14	300	No
	Aroclor 1260	<14	300	No
	Aroclor 1262	<14	300	No
	Aroclor 1268	<14	300	No

Sample Number/Location	Analyte Aroclor [1]	Results: nanograms per cubic meter of air (ng/m^3)	Exposure levels for evaluating PCBs (Age: 6-<12 yr) in school indoor air (ng/m^3)	Exceeds Exposure Level?
F02 Classroom 310	Aroclor 1121	<28	300	No
	Aroclor 1232	<14	300	No
	Aroclor 1016	<14	300	No
	Aroclor 1242	<14	300	No
	Aroclor 1248	<14	300	No
	Aroclor 1254	<14	300	No
	Aroclor 1260	<14	300	No
	Aroclor 1262	<14	300	No
	Aroclor 1268	<14	300	No

Sample Number/Location	Analyte Aroclor [1]	Results: nanograms per cubic meter of air (ng/m^3)	Exposure levels for evaluating PCBs (Age: 6-<12 yr) in school indoor air (ng/m^3)	Exceeds Exposure Level?
F03 Classroom 314	Aroclor 1121	<28	300	No
	Aroclor 1232	<14	300	No
	Aroclor 1016	<14	300	No
	Aroclor 1242	<14	300	No
	Aroclor 1248	<14	300	No
	Aroclor 1254	<14	300	No
	Aroclor 1260	<14	300	No
	Aroclor 1262	<14	300	No
	Aroclor 1268	<14	300	No

Sample Number/Location	Analyte Aroclor [1]	Results: nanograms per cubic meter of air (ng/m^3)	Exposure levels for evaluating PCBs (Age: 6-<12 yr) in school indoor air (ng/m^3)	Exceeds Exposure Level?
F04B Field Blank	Aroclor 1121	N/A	300	N/A
	Aroclor 1232	N/A	300	N/A
	Aroclor 1016	N/A	300	N/A
	Aroclor 1242	N/A	300	N/A
	Aroclor 1248	N/A	300	N/A
	Aroclor 1254	N/A	300	N/A
	Aroclor 1260	N/A	300	N/A
	Aroclor 1262	N/A	300	N/A
	Aroclor 1268	N/A	300	N/A

1) An Aroclor is the tradename for a specific PCB mixture.

The laboratory reports, chain-of-custody documents, and project notes are provided as attachments.

4 DISCUSSION

Air samples were collected in the breathing zone and near the center of each classroom. Prior to, and after the sampling, Alta observed no abnormalities had occurred during the sampling. At the start and end of survey, Alta noted that there was no change in classroom conditions from start to finish.

Please note that the samples collected are representative of the conditions during the time of the survey. If conditions change, please notify Alta immediately.

5 CONCLUSIONS

None of the target Aroclors were detected in any of the samples collected. The results were reported to be below the EPA's Exposure Levels for Evaluating PCBs in School Indoor Air (ng/m^3) Age: 6-<12 yr (elementary school) of 300 ng/m^3.

https://www.epa.gov/pcbs/exposure-levels-evaluating-polychlorinated-biphenyls-pcbs-indoor-school-air.

The criteria are as follows:

Age in Years Range	1 to <2	2 to <3	3 to <6	6 to <12	12 to <15	15to <19	19 +
PCBs ng/m^3	100	100	200	300	500	600	500

6 RECOMMENDATIONS

The EPA recommends that concentrations of PCBs in indoor air be kept as low possible and that the total PCB exposure be maintained below the oral reference dose (RfD) level of 20 ng of PCBs per kilogram of body weight per day (ng PCB/kg body weight). A RfD is an estimate of daily exposure to the human population (i.e., sensitive subgroups) that is likely to be without an appreciable risk of harmful effects during a life time. The referenced airborne exposure levels are calculated in conjunction with the RfD assuming the exposure through pathways, other than air, are equal to the average exposures for other pathways.

7 ASSUMPTIONS AND LIMITATIONS

This report was prepared exclusively for use by Santa Monica Malibu Unified School District, and may not be relied upon by any other person or entity without Alta Environmental' s express written permission. The information, conclusions and recommendations described in this report apply to conditions existing at certain locations when services were performed and are intended only for the specific purposes, locations, time frames and project parameters indicated. Alta Environmental cannot be responsible for the impact of any changes in environmental standards, practices or regulations after performance of services.

In performing our professional services, we have applied present engineering and scientific judgment and used a level of effort consistent with the current standard of practice for similar types of studies.

As applicable, Alta Environmental has relied in good faith upon representations and information furnished by individuals with respect to operations and existing property conditions, to the extent that they have not been contradicted by data obtained from other sources. Accordingly, Alta Environmental accepts no responsibility for any deficiencies, omissions, misrepresentations, or fraudulent acts of persons interviewed.

Alta Environmental will not accept any liability for loss, injury claim, or damage arising directly or indirectly from any use or reliance on this report. Alta Environmental makes no warranty, expressed or implied.

This report is issued with the understanding that the client, the property owner, or its representative is responsible for ensuring that the information, conclusions, and recommendations contained herein are brought to the attention of the appropriate regulatory agencies, as required.

Alta Environmental' s investigation and the conclusions and recommendations generated as a result reflect a subjective evaluation of limited data and thus may not be representative of all conditions present at the site. If you have any questions, please feel free to call the undersigned at (562) 495-5777.

8 SIGNATORY

Respectfully submitted by:

Alta Environmental

Scott Fan
Industrial Hygiene Specialist I

Reviewed by:

Alta Environmental

David Schack
Vice-President, Building Sciences

Attachments: Laboratory Report, Chain-of-Custody Document and Alta Field Notes

Attachments

Laboratory Report, Chain-of-Custody Document, Alta Field Notes

ANALYTICAL REPORT

Report Date: February 02, 2018

David Schack
ALTA Environmental
3777 Long Beach Blvd.
Long Beach, CA 90807

Phone: (562) 495-5777

E-mail: david.schack@altaenviron.com

Workorder: **34-1803053**
Project ID: Franklin E.S.-Bldg F 012718
Purchase Order: SMSO-17-7261
Project Manager Paul E. Pope

Client Sample ID	Lab ID	Collect Date	Receive Date	Sampling Site
F01	1803053001	01/27/18	01/30/18	Bldg F
F02	1803053002	01/27/18	01/30/18	Bldg F
F03	1803053003	01/27/18	01/30/18	Bldg F
Franklin 04B	1803053004	01/27/18	01/30/18	Bldg F

ANALYTICAL REPORT

Workorder: 34-1803053
Client: ALTA Environmental
Project Manager: Paul E. Pope

Analytical Results

Sample ID: **F01** | Sampling Site: Bldg F | Collected: 01/27/2018
Lab ID: 1803053001 | Media: PUF Tube | Received: 01/30/2018
Matrix: Air | Sampling Parameter: Air Volume 7214.4 L

Analysis Method - EPA TO-10A, PCBs

Preparation:	EPA 3540 Soxhlet Ext., EPA TO-10A	**Weight/Volume**	**Analysis:**	EPA TO-10A, PCBs Air	**Instrument ID:** GCE03
Batch:	ENVX/26128 (HBN: 207681)	**Initial:** 1 filter	**Batch:**	EGC/7152 (HBN: 207789)	**Percent Solid:** NA
Prepared:	01/31/2018	**Final:** 10 mL	**Analyzed:**	01/31/2018 00:00	**Report Basis:** Wet

Analyte	Result (ug/sample)	Result (ng/m³)	RL (ug/sample)	Dilution	Qual
Aroclor 1221	ND	<28	0.20	1	
Aroclor 1232	ND	<14	0.10	1	
Aroclor 1016	ND	<14	0.10	1	
Aroclor 1242	ND	<14	0.10	1	
Aroclor 1248	ND	<14	0.10	1	
Aroclor 1254	ND	<14	0.10	1	
Aroclor 1260	ND	<14	0.10	1	
Aroclor 1262	ND	<14	0.10	1	
Aroclor 1268	ND	<14	0.10	1	

Sample ID: **F02** | Sampling Site: Bldg F | Collected: 01/27/2018
Lab ID: 1803053002 | Media: PUF Tube | Received: 01/30/2018
Matrix: Air | Sampling Parameter: Air Volume 7257.6 L

Analysis Method - EPA TO-10A, PCBs

Preparation:	EPA 3540 Soxhlet Ext., EPA TO-10A	**Weight/Volume**	**Analysis:**	EPA TO-10A, PCBs Air	**Instrument ID:** GCE03
Batch:	ENVX/26128 (HBN: 207681)	**Initial:** 1 filter	**Batch:**	EGC/7152 (HBN: 207789)	**Percent Solid:** NA
Prepared:	01/31/2018	**Final:** 10 mL	**Analyzed:**	01/31/2018 00:00	**Report Basis:** Wet

Analyte	Result (ug/sample)	Result (ng/m³)	RL (ug/sample)	Dilution	Qual
Aroclor 1221	ND	<28	0.20	1	
Aroclor 1232	ND	<14	0.10	1	
Aroclor 1016	ND	<14	0.10	1	
Aroclor 1242	ND	<14	0.10	1	
Aroclor 1248	ND	<14	0.10	1	
Aroclor 1254	ND	<14	0.10	1	
Aroclor 1260	ND	<14	0.10	1	
Aroclor 1262	ND	<14	0.10	1	
Aroclor 1268	ND	<14	0.10	1	

ANALYTICAL REPORT

Workorder: 34-1803053
Client: ALTA Environmental
Project Manager: Paul E. Pope

Analytical Results

Sample ID: **F03** | Sampling Site: Bldg F | Collected: 01/27/2018
Lab ID: 1803053003 | Media: PUF Tube | Received: 01/30/2018
Matrix: Air | Sampling Parameter: Air Volume 7185.6 L

Analysis Method - EPA TO-10A, PCBs

Preparation:	EPA 3540 Soxhlet Ext., EPA TO-10A	**Weight/Volume**	**Analysis:**	EPA TO-10A, PCBs Air	**Instrument ID:** GCE03
Batch:	ENVX/26128 (HBN: 207681)	**Initial:** 1 filter	**Batch:**	EGC/7152 (HBN: 207789)	**Percent Solid:** NA
Prepared:	01/31/2018	**Final:** 10 mL	**Analyzed:**	01/31/2018 00:00	**Report Basis:** Wet

Analyte	Result (ug/sample)	Result (ng/m³)	RL (ug/sample)	Dilution	Qual
Aroclor 1221	ND	<28	0.20	1	
Aroclor 1232	ND	<14	0.10	1	
Aroclor 1016	ND	<14	0.10	1	
Aroclor 1242	ND	<14	0.10	1	
Aroclor 1248	ND	<14	0.10	1	
Aroclor 1254	ND	<14	0.10	1	
Aroclor 1260	ND	<14	0.10	1	
Aroclor 1262	ND	<14	0.10	1	
Aroclor 1268	ND	<14	0.10	1	

Sample ID: **Franklin 04B** | Sampling Site: Bldg F | Collected: 01/27/2018
Lab ID: 1803053004 | Media: PUF Tube | Received: 01/30/2018
Matrix: Air | Sampling Parameter: NA

Analysis Method - EPA TO-10A, PCBs

Preparation:	EPA 3540 Soxhlet Ext., EPA TO-10A	**Weight/Volume**	**Analysis:**	EPA TO-10A, PCBs Air	**Instrument ID:** GCE03
Batch:	ENVX/26128 (HBN: 207681)	**Initial:** 1 filter	**Batch:**	EGC/7152 (HBN: 207789)	**Percent Solid:** NA
Prepared:	01/31/2018	**Final:** 10 mL	**Analyzed:**	01/31/2018 00:00	**Report Basis:** Wet

Analyte	Result (ug/sample)	Result (ng/m³)	RL (ug/sample)	Dilution	Qual
Aroclor 1221	ND	NA	0.20	1	
Aroclor 1232	ND	NA	0.10	1	
Aroclor 1016	ND	NA	0.10	1	
Aroclor 1242	ND	NA	0.10	1	
Aroclor 1248	ND	NA	0.10	1	
Aroclor 1254	ND	NA	0.10	1	
Aroclor 1260	ND	NA	0.10	1	
Aroclor 1262	ND	NA	0.10	1	
Aroclor 1268	ND	NA	0.10	1	

Comments

Quality Control: **EPA TO-10A, PCBs - (HBN: 207789)**

Surrogate recoveries for sample 1803055005 were outside of QC limits. NCCAR #1436 was issued.

ANALYTICAL REPORT

Workorder: 34-1803053
Client: ALTA Environmental
Project Manager: Paul E. Pope

Report Authorization (/S/ is an electronic signature that complies with 21 CFR Part 11)

Method	Analyst	Peer Review
EPA TO-10A, PCBs	/S/ Mila V. Potekhin 02/01/2018 16:03	/S/ Lyle Edwards 02/02/2018 09:10

Laboratory Contact Information

ALS Environmental
960 W Levoy Drive
Salt Lake City, Utah 84123

Phone: (801) 266-7700
Email: alslt.lab@ALSGlobal.com
Web: www.alsslc.com

General Lab Comments

The results provided in this report relate only to the items tested.
Samples were received in acceptable condition unless otherwise noted.
Samples have not been blank corrected unless otherwise noted.
This test report shall not be reproduced, except in full, without written approval of ALS.

ALS provides professional analytical services for all samples submitted. ALS is not in a position to interpret the data and assumes no responsibility for the quality of the samples submitted.

All quality control samples processed with the samples in this report yielded acceptable results unless otherwise noted.

ALS is accredited for specific fields of testing (scopes) in the following testing sectors. The quality system implemented at ALS conforms to accreditation requirements and is applied to all analytical testing performed by ALS. The following table lists testing sector, accreditation body, accreditation number and website. Please contact these accrediting bodies or your ALS project manager for the current scope of accreditation that applies to your analytical testing.

Testing Sector	Accreditation Body (Standard)	Certificate Number	Website
Environmental	ANAB (DoD ELAP)	ADE-1420	http://www.anab.org/accredited-organizations/
	Utah (NELAC)	DATA1	http://health.utah.gov/lab/labimp/
	Nevada	UT00009	http://ndep.nv.gov/bsdw/labservice.htm
	Oklahoma	UT00009	http://www.deq.state.ok.us/CSDnew/
	Iowa	IA# 376	http://www.iowadnr.gov/InsideDNR/RegulatoryWater.aspx
	Texas (TNI)	T104704456-11-1	http://www.tceq.texas.gov/field/qa/lab_accred_certif.html
	Washington	C596-16	http://www.ecy.wa.gov/programs/eap/labs/index.html
	Kansas	E-10416	http://www.kdheks.gov/lipo/index.html
Industrial Hygiene	AIHA LAP LLC (ISO 17025 & IHLAP/ELLAP)	101574	http://www.aihaaccreditedlabs.org
	Washington	C596-16	http://www.ecy.wa.gov/programs/eap/labs/index.html
Lead Testing:			
CPSC	ANAB (ISO 17025, CPSC)	ADE-1420	http://www.anab.org/accredited-organizations/
Soil, Dust, Paint ,Air	AIHA LAP LLC (ISO 17025 & IHLAP/ELLAP)	101574	http://www.aihaaccreditedlabs.org
Dietary Supplements	ACLASS (ISO 17025)	ADE-1420	http://www.aclasscorp.com

ANALYTICAL REPORT

Workorder: 34-1803053
Client: ALTA Environmental
Project Manager: Paul E. Pope

Result Symbol Definitions

MDL = Method Detection Limit, a statistical estimate of method/media/instrument sensitivity.
RL = Reporting Limit, a verified value of method/media/instrument sensitivity.
CRDL = Contract Required Detection Limit
Reg. Limit = Regulatory Limit.
ND = Not Detected, testing result not detected above the MDL or RL.
< This testing result is less than the numerical value.
** No result could be reported, see sample comments for details.

Qualifier Symbol Definitions

U = Qualifier indicates that the analyte was not detected above the MDL.
J = Qualifier Indicates that the analyte value is between the MDL and the RL. It is also used to indicate an estimated value for tentatively identified compounds in mass spectrometry where a 1:1 response is assumed.
B = Qualifier indicates that the analyte was detected in the blank.
E = Qualifier indicates that the analyte result exceeds calibration range.
P = Qualifier indicates that the RPD between the two columns is greater than 40%.

Quality Control Sample
Batch Report

Analysis Information

Workorder: **1803053**

Limits:	Historical/Performance	**Preparation:**	EPA 3540 Soxhlet Ext., EPA TO-10A	**Analysis:**	EPA TO-10A, PCBs
Basis:	ALS Laboratory Group	**Batch:**	ENVX/26128 (HBN: 207681)	**Batch:**	EGC/7152 (HBN: 207789)
		Prepared By:	Xiao Y Chiang	**Analyzed By:**	Mila V. Potekhin

Blank

MB: 585434
Analyzed: 01/31/2018 00:00
Units: ug/sample

Analyte	Result	MDL	RL
Aroclor 1221	ND	NA	0.200
Aroclor 1232	ND	NA	0.100
Aroclor 1016	ND	NA	0.100
Aroclor 1242	ND	NA	0.100
Aroclor 1248	ND	NA	0.100
Aroclor 1254	ND	NA	0.100
Aroclor 1260	ND	NA	0.100
Aroclor 1262	ND	NA	0.100
Aroclor 1268	ND	NA	0.100

Laboratory Control Sample - Laboratory Control Sample Duplicate

LCS: 585435
Analyzed: 01/31/2018 00:00
Dilution: 1
Units: ug/sample

LCSD: 585436
Analyzed: 01/31/2018 00:00
Dilution: 1
Units: ug/sample

Analyte	LCS Result	Target	% Rec	QC Limits		LCSD Result	% Rec	RPD	QC Limits	
Aroclor 1221	3.67	4.00	91.8	58.8	112.4	3.76	94.0	2.42	0.0	20.0
Aroclor 1232	3.68	4.00	92.0	70.6	106.9	3.74	93.5	1.62	0.0	20.0
Aroclor 1016	3.47	4.00	86.8	44.8	124.5	3.57	89.3	2.84	0.0	20.0
Aroclor 1242	3.59	4.00	89.8	73.0	105.6	3.67	91.8	2.20	0.0	20.0
Aroclor 1248	3.74	4.00	93.5	41.5	135.2	3.80	95.0	1.59	0.0	20.0
Aroclor 1254	3.85	4.00	96.3	74.8	104.5	3.91	97.8	1.55	0.0	20.0
Aroclor 1260	3.86	4.00	96.5	73.2	104.5	3.93	98.3	1.80	0.0	20.0
Aroclor 1262	4.00	4.00	100	67.7	109.2	4.07	102	1.73	0.0	20.0
Aroclor 1268	4.03	4.00	101	29.7	144.9	4.14	104	2.69	0.0	20.0

Surrogate Recoveries

Surrogate	Tetrachloro-m-xylene	
QC Limits	70.0	130.0
Units	ug/sample	

Lab ID	Result	Target	% Recovery
585434-MB	0.492	0.500	98.4
1803053002	0.505	0.500	101
1803055001	0.494	0.500	98.8
1803055003	0.500	0.500	100
1803053004-FLDB	0.498	0.500	99.6
1803055004	0.495	0.500	99.0
1803055005-FLDB	0.0828	0.500	* 16.6

Quality Control Sample
Batch Report

Analysis Information

Workorder: **1803053**

Limits:	Historical/Performance	**Preparation:**	EPA 3540 Soxhlet Ext., EPA TO-10A	**Analysis:**	EPA TO-10A, PCBs
Basis:	ALS Laboratory Group	**Batch:**	ENVX/26128 (HBN: 207681)	**Batch:**	EGC/7152 (HBN: 207789)
		Prepared By:	Xiao Y Chiang	**Analyzed By:**	Mila V. Potekhin

Surrogate Recoveries

Surrogate	Tetrachloro-m-xylene		
QC Limits	70.0	130.0	
Units	ug/sample		
Lab ID	**Result**	**Target**	**% Recovery**
1803053003	0.502	0.500	100
585435-LCS	0.487	0.500	97.4
1803053001	0.510	0.500	102
1803055002	0.512	0.500	102
585436-LCSD	0.493	0.500	98.6

Comments

Surrogate recoveries for sample 1803055005 were outside of QC limits. NCCAR #1436 was issued.

QC Report Authorization (/S/ is an electronic signature that complies with 21 CFR Part 11)

Analyst	Peer Review
/S/ Mila V. Potekhin	/S/ Lyle Edwards
02/01/2018 16:03	02/02/2018 09:10

Symbols and Definitions

* - Analyte above reporting limit or outside of control limits
▲ - Sample result is greater than 4 times the spike added
◓ - Sample and Matrix Duplicate less than 5 times the reporting limit
⬢ - Result is above the calibration range
- The Matrix Spike, Matrix Spike duplicate or Matrix Duplicate is reported for your information only. The sample matrix may be inappropriate for the method selected.

RPD - Relative % Difference (Spike / Spike Duplicate)
ND - Not Detected (U - Qualifier also flags analyte as not detected)
NA - Not Applicable
QC results are not adjusted for moisture correction, where applicable

ALS

W 1803053

Air - Chain of Custody Record & Analytical Service Request

19011/#1

1803053

Requested Turnaround Time in Business Days (Surcharges) please circle	ALS Project No.
1 Day (100%) 2 Day (75%) 3 Day (50%) 4 Day (35%) 5 Day (25%) 10 Day-Standard	

Company Name & Address (Reporting Information) Alta Environmental 3777 Long Beach Boulevard, Annex Buildiing Long Beach, CA 90807	Project Name: Franklin E.S. - Buildg F Project Number: SM50-17-7261
Project Manager: Cesar Ruvalcaba	P.O. # / Billing Information
Phone: 562-495-5777 / Fax:	
Email Address for Result Reporting: cesar.ruvalcaba@altaenviron.com	Sampler (Print & Sign)

ALS Contact:

Analysis Method: EPA TO-10A (PCB)

Client Sample ID	Laboratory ID Number	Date Collected	Time Collected	Canister ID (Bar code # - AC, SC, etc.)	Flow Controller ID (Bar code # - FC #)	Canister Start Pressure "Hg	Canister End Pressure "Hg/psig	Sample Volume	EPA TO-10A (PCB)		Comments e.g. Actual Preservative or specific instructions
F01		1/27/18	0715 0715						X		ICE
F02		|	0717 0717						X		|
03		|	0720 0720						X		|
~~F04~~ Franklin 04B		|	N/A						X		|
Received F04 as Franklin 04B. changed to match sample Recived. ug 01/30/2018											

Report Tier Levels - please select

Tier I - Results (Default if not specified) ____
Tier III (Results + QC & Calibration Summaries) ____
Tier II (Results + QC Summaries) X
Tier IV (Data Validation Package) 10% Surcharge _X_

EDD required Yes / No
Type: ________ Units: ________

Chain of Custody Seal: (Circle) INTACT BROKEN ABSENT

Project Requirements (MRLs, QAPP)

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Date:	Time:
[signature]	1/26/18	1500	DEREK K	1/29/18	2:25pm
[signature]	1/29/18	2:25pm	~~DEREK K~~ DK		

Cooler / Blank Temperature 7 °C

ALS-SALT LAKE CITY-RELATED INFORMATION REPORT (CRIR)

COOLER OR CONTAINER INFORMATION CHECKLIST (Fill In or Circle)

Client Name: Alta Env — Project/Task/Site: 1803053

Date/Time of Receipt: 01/30/2018 9:42 — Number of Coolers Received: 1

Condition of Coolers:	Acceptable/Unacceptable	Temperature Control:	Present/Not Included
Cooler Custody Seals:	Present/Absent/NA Intact/Broken/NA	Location Temp Taken:	Control/Between Samples
Container Custody Seals:	Present/Absent/NA Intact/Broken/NA	Are all temperatures within project specific guidelines?	Yes/No/NA
Ice Present:	Yes/No/NA Frozen/Melted/NA	VOA Headspace Present?	Yes/No/NA

pH Check Performed:							
	Metals	Yes/No/NA	Total Phenolics	Yes/No/NA	NO3/NO2	Yes/No/NA
	Cyanide	Yes/No/NA	TPH – 418.1	Yes/No/NA	Oil & Grease	Yes/No/NA
	Sulfide	Yes/No/NA	COD	Yes/No/NA	Total Phosphorous	Yes/No/NA
	Ammonia	Yes/No/NA	TKN	Yes/No/NA	Gross A.B, Gamma Spec	Yes/No/NA

Cooler Received	DCL Cooler No.	Temp.	Cooler Received	DCL Cooler No.	Temp.	Cooler Received	DCL Cooler No.	Temp.
1	C18 8202	7 °C	4	C18	°C	7	C18	°C
2	C18	°C	5	C18	°C	8	C18	°C
3	C18	°C	6	C18	°C	9	C18	°C

Taken By: [signature] (Signature) — Marianne Schmith (Printed Name) — 01/30/2018 (Date)

CLIENT-RELATED INFORMATION

☐ Missing Cooler	☐ Missing Samples/Bottles	☐ Incorrect Preservation	☐ Insufficient Sample Volume
☐ Cooler Conditions	☐ Broken/Leaking Samples	☐ pH Criteria Not Met	☐ Chain of Custody Problems
☐ Missing Paperwork	☐ Incorrect Bottle Type	☐ Residual Chlorine Present	☐ Other:
☐ Missing/Incorrect Bottle Labels	☐ Cooler Temperatures Out of Range	☐ Head Space in Bottles	

BRIEFLY DESCRIBE THE PROBLEM AND THE ACTION TAKEN:

Sample F04 was Changed to match what was Recieved (Franklin 04B)

Sample MHS05B was recieved as MHS05. Changed to match what was on COC.

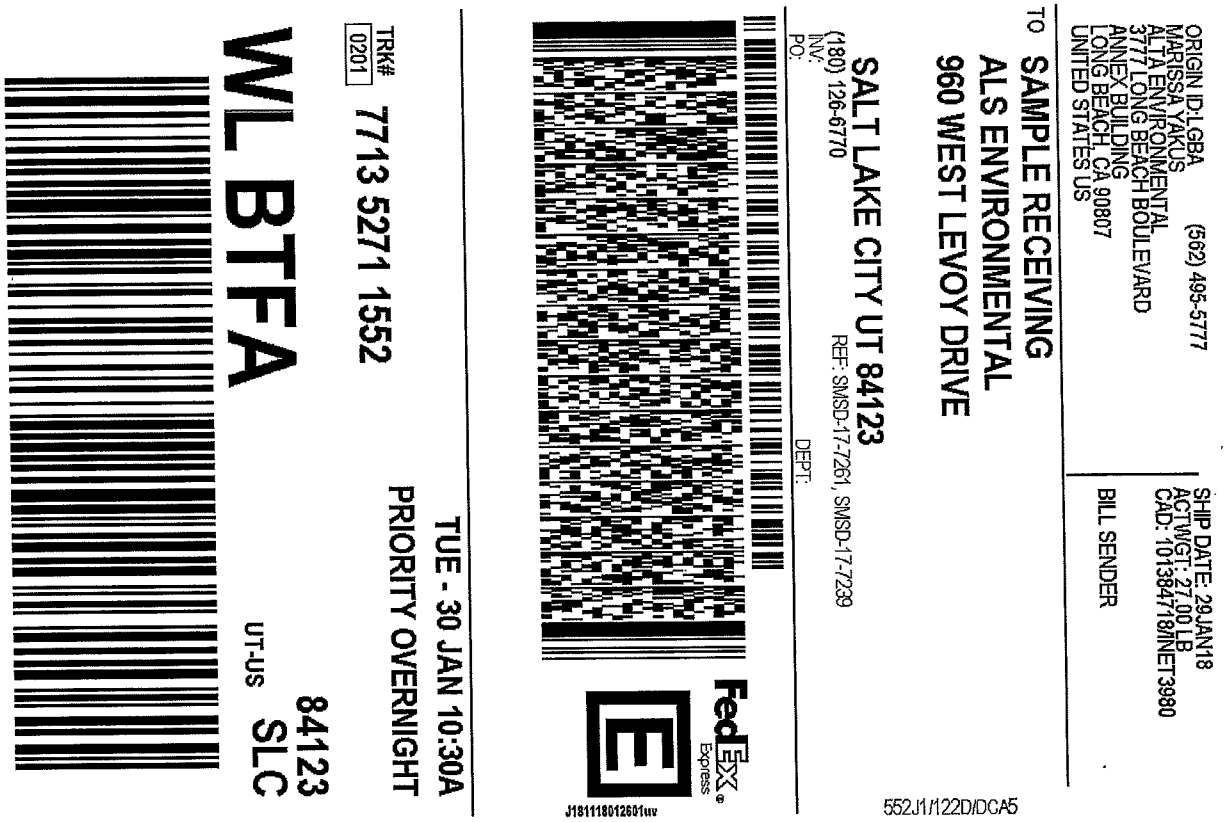
Client Notified? YES ☐ NO ☐

Response Required Within 24 Hours

PROJECT MANAGEMENT

PROJECT MANAGER COMMENTS:

ALS Project Manager: _____ (Printed Name) Returned to Sample Receipt by: _____ (Signature) Date: _____



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